Rebuild Colorado

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Governor's Office of Energy
Management and Conservation



What problems do you face at your facility?

- **✓** Competing needs for the budget
- ✓ Maintenance problems or comfort complaints
- **✓** Limited expertise on technologies
- ✓ Too many demands on staff time to launch new projects

Yet...you want to replace equipment and modernize your facilities





If you face these problems... you are not alone

An Innovative Solution:

Energy Performance Contracting

...a smart way to get better buildings



Energy Performance Contracting

Projects pay for themselves!



Savings stack up over time...



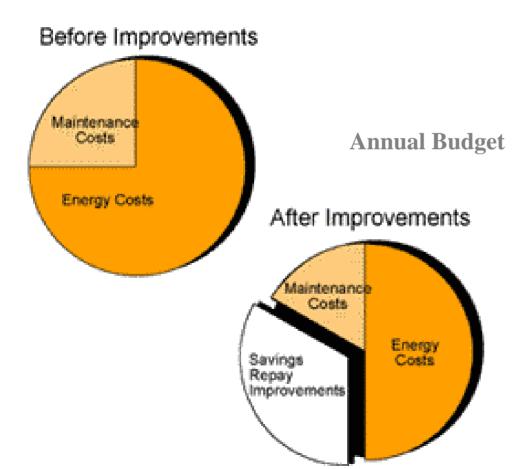
Making it Happen... Energy Performance Contracting

- A way to upgrade your facilities without dipping into your capital budget
- Use future energy savings to pay for projects



Here's How It Works.....

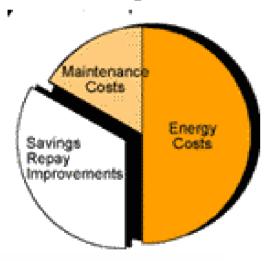
Annual Budget



Money otherwise owed to the gas or electric utility pays for equipment!

Multi-Year Lease-Purchase Agreement

Annual Budget AFTER Improvements



- Financed through lease-purchase agreement
- Annual cost savings exceed annual payments
- Financing term is 12-15 year; up to 25 years (equipment lifetime exceeds term)
- Not impacted by TABOR (annually renewable & subject to non-appropriations)
- Does not impact debt ceiling
- Endorsed by state legislature & governor

Round up the savings ...to get better buildings



Savings could total 20% (or more) of your current energy costs for buildings **Rebuild**

Partner with an ESCO

Energy Service Company (ESCO)



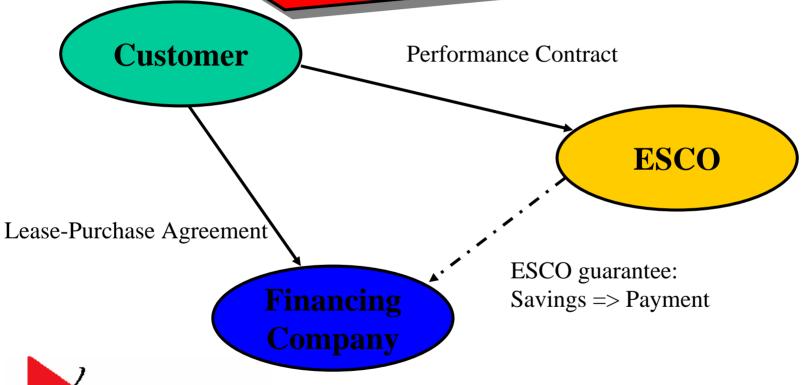


Your ESCO will put the pieces together

- **The state of the state of the**
- **b** Design systems (engineering), specify & purchase
- **Manage construction**
- Arrange for financing
- **Provide long-term energy management services**
- **" Guarantee performance!**



2 Contractual Agreements Secured by ESCO Guarantee



Better Buildings Tooking Through Energy Sovings Tomorrow

An Energy Performance Contracting Success Story

\$14 million in improvements

- Boiler & chiller plant renovation
- New lighting and controls systems
- Water-saving fixtures
- Also a public/private partnership with utility to operate plant

Paid for by \$800,000 in annual savings

...with no added budget!





State Capitol Complex

Department of Personnel & Administration with:

- •Department of Labor & Employment
- •Department of Judicial

An Energy Performance Contracting Success Story

\$400,000 in improvements

- Upgraded boilers, lighting, windows
- Added air-conditioning
- Internet-accessible controls system

Fresh air and comfortable temps help kids learn

Paid for by \$50,000 in annual savings plus a grant

...with no added budget!





Stratton
School District

Many Advantages of Performance Contracting

- Better Buildings! Improved Comfort! Maintenance Problems Solved!
- Pay for projects with no up-front funds (your utility budget pays for the projects)
- One-stop shopping (single contract for multiple projects)
- ESCO Expertise from onset to completion
 - Energy efficiency
 - Operation and maintenance of buildings
 - Project cost assessment
 - Project financing
 - Construction management
- Comprehensive, whole-building approach
- Training for your staff
- Ongoing project monitoring and trouble-shooting to ensure sustained savings

Rebuild Colorado

Developing the Program



Why Performance Contracting?

Locally-based ESCOs Good timing (in 1995)

- Government grants and utility rebates disappearing
- Few performance contracting projects at the time
- Growing interest among facility managers
- Opportunity to apply lessons learned

Performance contracting offers:

- A way to pay for projects
- Energy engineering expertise from start to finish
- Whole-building approach
- Deep savings
- Follow-up monitoring to ensure savings continue
- A good message...projects pay for themselves!



Focus on Performance Contracting

Projects pay for themselves!



Help building owners help themselves.



Rebuild Colorado

Better Buildings Today...

through Energy Savings Tomorrow





Program Overview

Two key elements:

Marketing

Education/awareness campaign on performance contracting

Customer services

On-site, hands-on assistance to help customers implement effective performance contracts

Marketing the Program

Communications materials

- Case studies
- 5 Steps to Successful Energy Performance Contracting
- Web site

• Use existing networks

- Presentations at association meetings and conferences
- Articles and notices in newsletters
- Workshops
- Recognition event (with governor)





Recognition from the Governor





Governor Owens honors performance contracting champions at Englewood Schools

Customer Services: Follow-up to Marketing

Services for building owners

- On-site facilitation, trouble-shooting
- Feasibility study to identify opportunities
- Sample RFP and contract documents
- Engineering assistance through every step
- Performance contracting expertise



Actively Building Partnerships

Key Partnership:



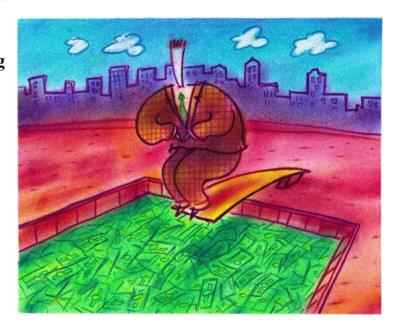




Marketing Barriers

Marketing Barriers

- Staff Issues
 - Difficult to get a "go" decision multiple decision-makers (facilities, legal, procurement, finance)
 - Limited staff & competing needs for their time
 - Fear of taking on a big, long-term, high-profile project
- Education Issues
 - Lack of knowledge about energy savings potential
 - Limited knowledge about performance contracting
 - Skeptical about performance contracting
 - Believe it is not wise to pay financing costs
 - Assume ESCO overhead is too high
- Institutional Issues
 - No pressing need for equipment replacements, so not a high priority
 - Process to fund project internally
 - Want to keep the savings (????)



ESCO Views on Marketing

"A performance contract is a two-part sale:

- First, sell the customer on the concept;
- Second, sell the customer on your company as the one to do the job.

Rebuild Colorado will have a tremendous influence on ESCO business by focusing on the first part -- educate the customer."

Overcoming Marketing Barriers

Role of State Energy Office

- Industry perspective:

 A stamp of approval for the concept and the industry
- Customer perspective:
 Increased confidence,
 easier buy-in, reduced risk





OEMC's role...
"honest brokers"

Governor's Support



Governor Bill Owens

Governor's Perspective

- Public/private partnership
- Reduces taxpayer burden
- Performance contracting is part of the state's plan for addressing energy needs



Legislation

For State Agencies

- Established procurement & budgeting procedures
- Set guidelines
 - Term limited by equipment lifetime or 25 years
 - Maintenance savings allowed
 - Guarantee required only for first 3 years

For Local Governments

- Updated 1990 legislation

And, an Executive Order



5 Steps to Success & Rebuild Colorado Services



Decide if performance contracting is right for you

(Assess your needs & potential benefits)

Services: Free engineering study, Board presentation, meetings



Select an Energy Service Company, ESCO

(Develop an RFP)

Services: RFP development, advisor



ESCO identifies energy-saving opportunities

(Develop an audit contract)

Services: Audit contract development, negotiating tips, engineering review of audit



ESCO implements projects

(Negotiate an Energy Performance Contract)

Services: Contract development, negotiating tips, engineering & process advisor



Verify savings and enjoy the benefits

(Monitor long-term performance)

Services: Engineering review of results and basic follow-up monitoring

Making a Difference

Ensure quality projects

- Lay the groundwork
 - Effective (and pre-approved) procurement and contract documents

Raise the bar for industry

- Rebuild Colorado Standards for Success (involve us!)
- Well-established engineering procedures
- Monitoring & Verification guidelines & requirements
- Commissioning guidelines
- OEMC 3rd party review

Market Transformation

- Increased quantity of projects (Successful projects with well-documented and measured results)
- Performance contracting recognized as a familiar practice (increased credibility)
- Nurtured a competitive market in Colorado
- Facilitated new markets for small facilities, new construction, new markets (housing authorities)
- Increased the credibility of performance contracting process & the industry
- Streamlined and standardized purchasing/contracting approach (accepted by industry)
- Increased consumer confidence (overcoming past industry problems)
- Partnership with industry (sounding board for OEMC through the ESC)

Results/Successes

Projects completed or in process: \$120 million

Program Costs:

- Marketing
- Engineering services
- Staff

Program Leverage:

\$50+ in capital investment generated for each \$1 spent on the program





Energy Savings

\$120 million in project investment

paid for through

\$12 million in annual utility cost savings

(162 million kWh savings; 10 million therms)





Environmental Savings

Pollution Prevention equivalent of taking <u>36,000 cars</u> off the road

216,000 tons of CO2 per year 270 tons of SO2 per year 308 tons of NOx per year





Economic Benefit

540 jobs created(4-5 jobs per million invested)

\$48 million in economic development

(40 cents pumped into the economy for every \$1 investment)





Water Savings

Millions of gallons of Water saved





Program Sustainability

Public/Private Partnership to promote performance contracting

Energy Services Coalition (ESC)

State energy offices

ESCOs

Vendors, financing institutions, others

www.escperform.org

Goals:

- Joint marketing in Colorado
- Unify marketing efforts of state energy offices and industry
- Increase customer awareness of performance contracting
- Break down barriers to performance contracting
- Improve program effectiveness (ESCOs as sounding board)

Rebuild Colorado Services

Rebuild Colorado is here to get you started and see you through!



Rebuild Colorado

Contact Us....

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